

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/053611 A3**

(51) International Patent Classification<sup>7</sup>: A61K 38/00 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(21) International Application Number: PCT/US2004/039325

(22) International Filing Date: 23 November 2004 (23.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/524,884 26 November 2003 (26.11.2003) US

(71) Applicant (for all designated States except US): TRANSMOLECULAR, INC. [US/US]; One Perimeter Park South, Suite 400 North, Birmingham, AL 35243 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GONDA, Matthew, A.** [US/US]; One Perimeter Park South, Suite 400 North, Birmingham, AL 35243 (US). **ALVAREZ, Vernon, L.** [US/US]; One Perimeter Park South, Suite 400 North, Birmingham, AL 35243 (US). **GRIMES, Carol, A.** [US/US]; One Perimeter Park South, Suite 400 North, Birmingham, AL 35243 (US).

(74) Agents: **SMYTH, Robert, J.** et al; Morgan, Lewis & Bockius LLP, 1111 Pennsylvania Avenue, Northwest, Washington, DC 20004 (US).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:  
4 May 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/053611 A3

(54) Title: TREATMENT OF PHOSPHATIDYLINOSITOL PHOSPHOLIPID DISORDERS

(57) Abstract: Disclosed is a method of treating cell proliferative disorders, such as cancer, with amounts of chlorotoxin and/or derivatives, analogs of fragments thereof, which are effective to bind to phosphoinositol phospholipids.